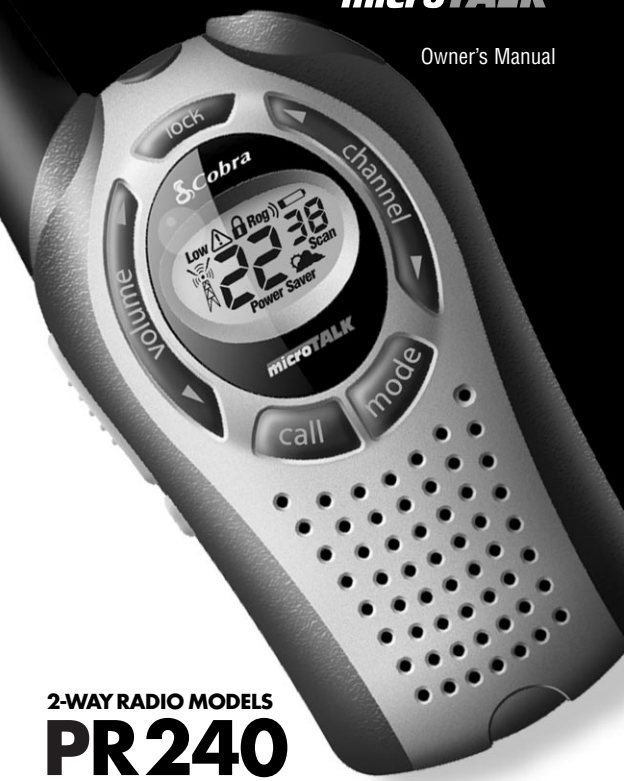
Cobra®

microTALK®

Owner's Manual



2-WAY RADIO MODELS

PR240
PR350WX

Printed in Philippines
Part No. 480-048-P

Making Life Easier & Safer

Staying in touch with your family and friends is convenient and easy when using your microTALK® radio. Some of the many uses you will discover include: Communicating with others while hiking, biking, and working; keeping track of family and friends at a crowded public event; checking with travel companions in another car; talking with neighbors; arranging meeting spots with others while shopping at the mall.

Belt Clip

Wrist Strap

Secure your microTALK® radio while on the go.

Carrying your microTALK® radio with you is easy when using the belt clip or wrist strap.

The belt clip easily attaches to your belt, purse, or backpack. Simply squeeze the clip and place it where you prefer.

Customer Assistance

For Assistance In the U.S.A.

In this user's manual, you should find all the information you need to operate your microTALK® radio. If you require further assistance after reading this manual, Cobra® Electronics offers the following customer assistance services:

Automated Help Desk
English only. 24 hours a day, 7 days a week 773-889-3087 (phone).

Customer Assistance Operators
English and Spanish. 8:00 a.m. to 6:00 p.m. CT,
Monday through Friday (except holidays) 773-889-3087 (phone).

Questions
English and Spanish. Faxes can be received at 773-622-2269 (fax).

Technical Assistance
English only. www.cobra.com (on-line: Frequently Asked Questions).
English and Spanish. productinfo@cobra.com (e-mail).

For Assistance Outside the U.S.A.
Contact Your Local Dealer

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Chicago, Illinois 60707 USA
www.cobra.com

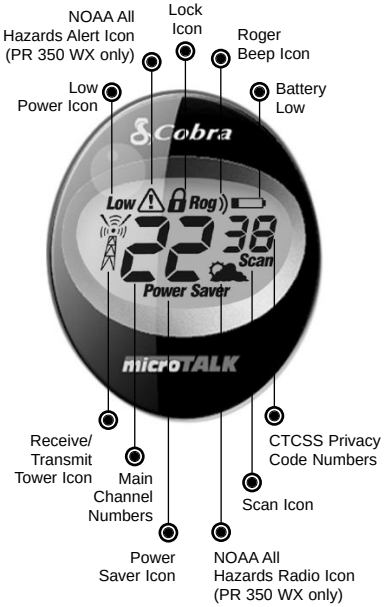
Product Features

Product Features

Features

- **Two-Way Radio** With a range up to five (5) miles (8 km).
- **22 Channels** Seven shared with FRS/GMRS, seven FRS only eight GMRS only.
- **38 Privacy Codes**
- **10 Channel NOAA All Hazards Radio** (PR 350 WX only)
- **NOAA All Hazards Alert** (PR 350 WX only)
- **Backlit LCD Display**
- **Scan** (channel, privacy code)
- **Water Resistant**
- **Speaker/ Microphone Jack**
- **Call Alert** (10 selectable tones)
- **Lock**
- **"Roger Beep"** (selectable On/Off)
- **Battery/ Power Saver**
- **Auto Squelch**
- **Maximum Range Extender**
- **Belt Clip**
- **Wrist Strap**

Backlit LCD Display



Important FCC Licensing Information

This radio operates on General Mobile Radio Service (GMRS) frequencies which require a Federal Communications Commission (FCC) license. See page 18 for licensing and other related information.

Caring for Your microTALK® Radio

Your microTALK® radio will give you years of trouble-free service if cared for properly. Handle the radio gently. Keep the radio away from dust. Never put the radio in water or in a damp place. Avoid exposure to extreme temperatures.

Batteries

To Install or Replace Batteries:

1. Remove belt clip by releasing belt clip latch and sliding clip up.
2. Pull down on the **Battery Door Latch** to remove the battery compartment cover.
3. Insert four AAA batteries. (Always use high quality alkaline batteries.) Position batteries according to polarity markings.
4. Replace Battery Compartment cover and belt clip.

See information on page 20 for optional battery pack and desktop charger accessories ordering instructions.

The Basics to Get You Started

Your microTALK® radio is easy to use. To get started, simply:

1. Press the **Power** button to turn On your radio.
2. Press the **Channel Up** or **Channel Down** button to select a channel.

Both radios must be tuned to the same channel to communicate.

3. Press and hold the **Talk** button while speaking into the microphone.
4. When finished talking, release the **Talk** button and listen for a response.

On/Off Power

Turning On Your microTALK® Radio

To Turn On Your Radio:

1. Press and hold the **Power** button until you hear a series of audible tones indicating the radio is On.

Your microTALK® radio is now in **Standby Mode**, ready to receive transmissions. The radio is always in **Standby Mode** except when the **Talk**, **Call** or **Mode** buttons are pressed.

Battery Low

Battery Low

When battery power is low, the Battery Low icon will blink. Your batteries should be replaced or recharged, if using rechargeable batteries.

Battery Save Mode

Auto Battery Save

Your microTALK® radio has a unique circuit designed to extend battery life. If there are no transmissions within ten (10) seconds, the radio will automatically switch to **Battery Save Mode** and Power Saver icon will flash in the display. This will not affect the radio's ability to receive incoming transmissions.

Talk Button

2 inches (5 cm) From Mouth

Communicating with Another Person

To Talk To Another Person:

1. Press and hold the **Talk** button.
2. With the microphone about two (2) inches (5 cm) from your mouth, speak in a normal voice.
3. Release the **Talk** button when you are finished talking and listen for a response.

You cannot receive incoming calls while pressing the **Talk** button.

Both radios must be tuned to the same channel to communicate.

Mode Button

Scrolling Through the Mode Function

By scrolling through the Mode function, you will be able to select or turn On preferred features of your microTALK® radio. When scrolling through the Mode function, your radio features will be displayed in the same predetermined order:

PR 240
Set Privacy Code
Set Channel Scan
Set Privacy Code Scan
Set Call Tones
Set "Roger Beep" On/Off

PR 350 WX
Set Privacy Code
Set NOAA All Hazard Radio Channels
Set NOAA All Hazard Alert
Set Channel Scan
Set Privacy Code Scan
Set Call Tones
Set "Roger Beep" On/Off

Channel Button

Channel Number

Channels

To Select a Channel:

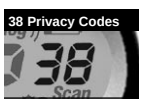
1. With the radio On, select any of the 22 channels by pressing the **Channel Up** or **Channel Down** button.

Both radios must be tuned to the same channel to communicate.

Channels 1 through 7 are shared with FRS/GMRS. Channels 8 through 14 are FRS only. Channels 15 through 22 are GMRS only.

See page 17 for FRS/GMRS frequency allocations and compatibility charts.

38 Privacy Codes



CTCSS Privacy Codes

CTCSS (Continuous Tone Coded Squelch System) is an advanced tone coding system allowing you to select one of 38 privacy codes to reduce interference from other users on the channel.

If you are using a privacy code, both radios must be tuned to the same channel and privacy code to communicate. Each channel will remember the last privacy code you selected.

Mode Button

To Select a Privacy Code:

1. After selecting a channel, press the **Mode** button until the small numbers next to the channel number flash on the LCD.
2. Press the **Channel Up** or **Channel Down** button to select a privacy code. You can hold the **Up** or **Down** button for fast advance.
3. When your desired privacy code is displayed:
   a. Press the **Mode** button to enter the new setting and proceed to other functions.
   b. Press the **Lock** button to enter the new setting and return to **Standby Mode**.
   c. Do not press any buttons for 15 seconds to enter the new setting and return to **Standby Mode**.

Privacy Code

Channel Button

Listening

Listening for a Response

When You are Finished Talking:

1. Release the **Talk** button to receive incoming transmissions. Your microTALK® radio is always in **Standby Mode** while the **Talk** or **Call** buttons are not pressed.

Volume Button

Volume

To Adjust the Volume:

1. Press the **Volume Up** or **Volume Down** button.

A double beep sound is used to indicate the minimum and maximum volume levels (L1 through L7).

Volume Level

Call Button

To Alert Another Person That You Are Calling:

1. Press and release the **Call** button.

The other person will hear a two (2) second call tone. You cannot send or receive transmissions during the two (2) second call tone.

Call Button

See page 13 on how to select between ten (10) call tone settings.

Hazards Radio Icon

Hazards Alert Icon

NOAA* All Hazards Radio Channels and Alert (PR 350 WX only)

You can use your microTALK® radio to listen to NOAA All Hazards Radio channels transmitting in your area.

You can also program your microTALK® radio to sound a tone alert when a local NOAA channel activates an Emergency All Hazards Alert. This will warn you of weather, chemical, and other civilian emergencies.

*National Oceanographic and Atmospheric Administration

To Listen to All Hazards Radio Channels (PR 350 WX only):

1. Press the **Mode** button until the Weather (All Hazards Radio) icon and the currently selected All Hazards Radio channel are displayed.
2. Use the **Channel Up** or **Channel Down** button to change All Hazards Radio channels.
3. Weather (All Hazards Radio) icon will continue to be displayed when All Hazards Radio is On.
   a. Press the **Mode** button to proceed to other functions.
   b. Press the **Lock** button to exit All Hazards Radio channel mode and return to **Standby Mode**.

To Turn On All Hazards Alert (PR 350 WX only):

1. Press the **Mode** button until the Alert icon flashes and the current On or Off setting is displayed.
2. Press the **Channel Up** or **Channel Down** button to turn All Hazards Alert On or Off.
3. Alert icon will continue to be displayed when All Hazards Alert is On.
   a. Press the **Mode** button to enter the new setting and proceed to other functions.
   b. Press the **Lock** button or do not press any buttons for 15 seconds to enter the new setting and return to **Standby Mode**.
   c. Press the **Talk** button to keep original settings and return to **Standby Mode**.

Scan

Your microTALK® radio can automatically scan main channels (1 through 22) or the privacy codes (00 through 38) within one (1) main channel.

To Scan Main Channels:

1. Press the **Mode** button until the Scan icon and the main channel number flashes on the display.
2. Press the **Channel Up** or **Channel Down** button to begin scanning the main channels.

> The radio ignores privacy codes while scanning main channels.

3. The Scan icon will continue to be displayed when Scan is On. Your radio will continue to scan all main channels and stop if an incoming transmission is detected. Your radio will remain on that channel for ten (10) seconds. During this time, you can:
   a. Press and hold the **Talk** button and communicate with others. Your radio will remain on that channel and return to **Standby Mode**.
   b. Press the **Channel Up** or **Channel Down** button to resume scanning channels.
   c. Press the **Mode** button to proceed to privacy code scanning (see page 12 for further details).

If you press the **Talk** button while scanning, and not within ten (10) seconds of receiving a transmission, you will transmit on the last channel you transmitted or received on.

If you do not press any button within ten (10) seconds, your radio will automatically resume scanning main channels.

Channel Button

Select Channel

Mode Button

Scan Privacy Codes

To Scan Privacy Codes:

1. While in **Standby Mode**, press the **Channel Up** or **Channel Down** button to choose the main channel you wish to scan.
2. Press the **Mode** button until the Scan icon and the privacy code number flashes on the display.
3. Press the **Channel Up** or **Channel Down** button and your radio will begin scanning privacy codes within the main channel you selected.
4. The Scan icon will continue to be displayed when Scan is On. Your radio will continue to scan privacy codes and stop an incoming transmission is detected. Your radio will remain on that channel and privacy code for ten (10) seconds. During this time, you can:
   a. Press and hold the **Talk** button to communicate with others. Your radio will remain on that channel and privacy code and return to **Standby Mode**.
   b. Press the **Channel Up** or **Channel Down** button to resume scanning privacy codes.
   c. Press the **Mode** button to proceed to other functions.

If you press the **Talk** button while scanning, and not within ten (10) seconds of receiving a transmission, you will transmit on the last channel you transmitted or received on.

If you do not press any button within ten (10) seconds, your radio will automatically resume scanning privacy codes.

Mode Button

Call Tone Setting

Channel Button

10 Call Tone Settings

You can choose between ten (10) different call tone settings to transmit a unique call alert.

To Change a Call Tone Setting:

1. Press the **Mode** button until the letter "C" and the current call tone number (1 through 10) is displayed. The current call tone will sound for one (1) second.
2. Press the **Channel Up** or **Channel Down** button to hear the other call tone settings.
3. a. Press the **Mode** button to enter the new setting and proceed to other functions.
   b. Press the **Lock** button to enter the new setting and return to **Standby Mode**.

Mode Button

Roger Beep Off

Channel Button

"Roger Beep" Confirmation Tone

Your listener will hear an audible tone when you release the **Talk** button. This alerts the other party that you are finished talking and it is **OK** for them to speak. This feature can be turned On or Off.

To Turn "Roger Beep" On or Off:

When turning On your microTALK® radio for the first time, "Roger Beep" will be On.

1. Press the **Mode** button until the Roger Beep icon flashes. The current On or Off setting is displayed.
2. Press the **Channel Up** or **Channel Down** button to select "Roger Beep" On or Off.
3. a. Press the **Mode** button to enter the new setting and proceed to other functions.
   b. Press the **Lock** button to enter the new setting and return to **Standby Mode**.

The setting you select will be saved when you turn your radio Off and On again. When the "Roger Beep" is On, the "Roger Beep" icon will be displayed.

Light/Max Range

Display Illumination

To Illuminate Your Display:

1. Press and release the **Light/Max Range** button to illuminate the display for ten (10) seconds.

Auto Squelch/Maximum Range

Your microTALK® radio is equipped with Auto Squelch, which automatically shuts Off weak transmissions and unwanted noise due to terrain, conditions, or if you've reached your maximum range limit.

You can temporarily turn Off Auto Squelch or turn On Maximum Range Extender, allowing all signals to be received and extending the maximum range of your radio.

Light/Max Range

To Temporarily Turn Off Auto Squelch:

1. Press the **Light/Max Range** button less than five (5) seconds.

If you hear two (2) beeps, you have turned the Maximum Range Extender On (see below).

To turn Maximum Range Extender On:

1. Press and hold the **Light/Max Range** button for at least five (5) seconds until you hear two (2) beeps which indicates the Maximum Range Extender is On.

To Turn Maximum Range Extender Off:

1. Press and release the **Light/Max Range** button or change channels.

Lock Button

Lock Icon

Lock Function

The Lock function locks the **Channel**, **Mode**, and **Power** buttons to prevent accidental operation.

To Turn the Lock On or Off:

1. Press and hold the **Lock** button for two (2) seconds.

A double beep sound is used to confirm your Lock On or Off request. When in **Lock Mode**, the Lock icon will be displayed.

Speaker/Microphone

Speaker/Microphone Jack

Your microTALK® radio can be fitted with an external Speaker/Microphone, freeing your hands for other tasks. Contact your local Cobra® dealer or Cobra® directly for optional accessories. Only Cobra® authorized accessories are recommended.

To Attach Your Speaker/Microphone:

1. Open the **Speaker/Microphone** tab on top of your microTALK® radio.
2. Insert the plug into the **Speaker/Microphone** jack.

microTALK® Range

Your microTALK® radio has a range of up to five (5) miles (8 km). Your range will vary depending on terrain and conditions.

In flat, open country your radio will operate at maximum range.

Buildings and foliage in the path of the signal can reduce the range of the radio.

Dense foliage and hilly terrain will further reduce the range of the radio.

On FRS channels 8 through 14, your radio automatically switches to low power, which will limit the range the radio can communicate.

Remember, you can achieve maximum range by using Maximum Range Extender. See page 14 for details.

General Specifications

A. FRS/GMRS Frequency Allocation and Compatibility

Important: Please note that Cobra® GMRS models with 15 channels may designate different channel numbers for the same frequency. For example, a Cobra® 15 channel GMRS model would need to be tuned to channel 11 in order to communicate with a 22 channel GMRS tuned to channel 15. Please refer to the chart below for channel/frequency number compatibility.

A = Channel No. For 22 Channel GMRS Models
B = Channel No. For 15 Channel GMRS Models
C = Type of Radio Service
D = Frequency in MHz
E = Power in Watts

A	B	C	D	E
1	1	FRS/GMRS	462.5625	1.0
2	2	FRS/GMRS	462.5875	1.0
3	3	FRS/GMRS	462.6125	1.0
4	4	FRS/GMRS	462.6375	1.0
5	5	FRS/GMRS	462.6625	1.0
6	6	FRS/GMRS	462.6875	1.0
7	7	FRS/GMRS	462.7125	1.0
8		FRS	467.5625	0.5
9		FRS	467.5875	0.5
10		FRS	467.6125	0.5
11		FRS	467.6375	0.5
12		FRS	467.6625	0.5
13		FRS	467.6875	0.5
14		FRS	467.7125	0.5
15	11	GMRS	462.5500	1.0
16	8	GMRS	462.5750	1.0
17	12	GMRS	462.6000	1.0
18	9	GMRS	462.6250	1.0
19	13	GMRS	462.6500	1.0
20	10	GMRS	462.6750	1.0
21	14	GMRS	462.7000	1.0
22	15	GMRS	462.7250	1.0

B. Receiver

	Unit	Nominal
1. Sensitivity		
For 12 DB SINAD	dBm	-121
For Call Signal Detection	dBm	-121
2. Max. Audio Output @10% THD	mW	200
3. Max. S/N Ratio @ 1mV RF Input	dB	50
4. Squelch		
a) Sensitivity	dBm	-121
b) Attack Time	mS	150
c) Closing Time	mS	200
5. Audio Frequency Response		
@ 300 HZ	dB	-3
@ 2500 HZ	dB	-10
6. Signal Displacement BW	+/-KHZ	5
7. Adjacent Channel Rejection	dB	40
8. Intermodulation Rejection	dB	65
9. Spurious Response Rejection	dB	55

C. Transmitter

	Unit	Nominal
1. Power		
GMRS	W	1
FRS Only	mW	500
2. Carrier Frequency Stability	±Hz	500
3. Modulation Limiting	KHz	2.5
4. Carrier Attack Time	mS	80
5. Audio Frequency Response		
@ 300 HZ	dB	-12
@ 2500 HZ	dB	+6
6. Audio Distortion	%	3
7. Hum Noise	dB	30
8. Transient Frequency Behavior		
a) TX On	mS	30
b) TX Off	mS	5

D. Power Supply

	Unit	Nominal
1. Battery Life (5:5:90 RATIO) With Alkaline Batteries	HR	24
2. Battery Operating Range	V	4.2 - 6.0